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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/772,907	01/31/2001	Seiji Fujitsuka	108483	1105	
25944	2590 12/12/2002				
OLIFF & BERRIDGE, PLC			EXAMINER		
P.O. BOX 19928			MATHEWS, ALAN A		
ALEXANDRI	ALEXANDRIA, VA 22320				
			ART UNIT	PAPER NUMBER	
			2851		
		DATE MAILED: 12/12/2002			

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	09/772,907	FUJITSUKA ET AL.			
Office Action Summary	Examiner	Art Unit			
	Alan A. Mathews	2851			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR IT THE MAILING DATE OF THIS COMMUNICAT - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communicat - If the period for reply secified above is less than thirty (30) day - If NO period for reply is specified above, the maximum statutory - Failure to reply within the set or extended period for reply will, b - Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	TION. CFR 1.136(a). In no event, however, may a replytion. is, a reply within the statutory minimum of thirty (3 period will apply and will expire SIX (6) MONTH y statute, cause the application to become ABAN	y be timely filed 80) days will be considered timely. S from the mailing date of this communication. IDONED (35 U.S.C. § 133).			
Status () Status	00.0 4.4 0000				
1) Responsive to communication(s) filed o	_				
<u></u>	☐ This action is non-final.				
 Since this application is in condition for closed in accordance with the practice ι Disposition of Claims 					
4)⊠ Claim(s) <u>1-28</u> is/are pending in the appli	ication.				
4a) Of the above claim(s) <u>1-11</u> is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>12-16, 18, 19, 22-24, 26-28</u> is/are rejected.					
7) Claim(s) <u>17,20,21 and 25</u> is/are objected	I to.				
8) Claim(s) are subject to restriction	and/or election requirement.				
Application Papers					
9)☐ The specification is objected to by the Exa	aminer.	•			
10) The drawing(s) filed on is/are: a) □] accepted or b) objected to by the	Examiner.			
Applicant may not request that any objection					
11)☐ The proposed drawing correction filed on	is: a) approved b) disa	approved by the Examiner.			
If approved, corrected drawings are required	, <u>, , , , , , , , , , , , , , , , , , </u>				
12)☐ The oath or declaration is objected to by t	he Examiner.				
Priority under 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for f	foreign priority under 35 U.S.C. § 1	19(a)-(d) or (f).			
a)⊠ All b)□ Some * c)□ None of:					
1. ☐ Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
 3. Copies of the certified copies of the application from the Internation * See the attached detailed Office action for 	nal Bureau (PCT Rule 17.2(a)).	•			
14) ☐ Acknowledgment is made of a claim for do	•				
a) ☐ The translation of the foreign languages 15)☐ Acknowledgment is made of a claim for do	ge provisional application has been	n received.			
Attachment(s)	omosiio priority under 00 0.0.0. 35	5 120 ana/or 121.			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-94) 3) Information Disclosure Statement(s) (PTO-1449) Paper N	48) 5) Notice of Info	nmary (PTO-413) Paper No(s) ormal Patent Application (PTO-152)			

Application/Control Number: 09/772,907

Art Unit: 2851

DETAILED ACTION

Election/Restrictions

1. Applicant's election of Species II in Paper No. 9 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)). Claims 1-11 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected species, there being no allowable generic or linking claim.

Drawings

2. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(4) because reference character "103" in figure 20 has been used to designate both an illumination optical system and a substrate stage. The specification recites on page 44 that the substrate stage is element "106" in figure 20. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Application/Control Number: 09/772,907 Page 3

Art Unit: 2851

Claim Rejections - 35 USC § 112

3. Claims 12, 13, 23, and 28 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. In claim 12, line 9, "the same" is indefinite. If Applicant substituted "mask and substrate" for the word "same" the indefiniteness would be corrected. In claim 23, line 3, "reversing a direction of illumination" is indefinite. Does this mean that the light goes from the substrate to the light source?

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claims 14 –16, 18, 19, 22, 24, 26, 27 are rejected under 35 U.S.C. 102(b) as being anticipated by Nishi (U. S. Patent No. 5,854,671). Nishi '671 discloses in figure 3 a blind mechanism 20, Nishi '671 discloses several embodiments showing movement of the blind blades, including embodiments shown in figures 8, 10, and 11. Figure 8 and column 12, lines 57-67, and column 13, lines 1-12 disclose an embodiment wherein a blind mechanism 20 that correspond to a case where a size of the on-the reticle chip pattern to be exposed in the Y direction orthogonal to the scan direction increases with respect to the image field IF of the

Application/Control Number: 09/772,907 Page 4

Art Unit: 2851

projection optical system. Column 13, lines 2-4 state, "four pieces of blades BL₁- BL₄ move in the X- and Y-directions in interlock with movement of the reticle **during** the scan exposure". In addition, in embodiment 3, figure 11 discloses movement of blades BL₃ and BL₄ in the Y direction (which is orthogonal to the scan direction). With respect to claim 19, the corners in figure 8 are triangular. Furthermore, figure 10 discloses triangular ends. With respect to claim 24, column 13, line 44, and column 14, line 5, disclose overlapping.

6. Claims 14-16 are rejected under 35 U.S.C. 102(b) as being anticipated by Nishi (U. S. Patent No. 5,591,958). Nishi '958 discloses in figures 5 and 6 and column 18, lines 22-30 and column 19, lines 25-37, blades 138_x and 139_x which move in the non scanning direction.

Column 18, lines 23 and 24 state that light shielding plates 138 and 139 are driven during scanning exposure.

Allowable Subject Matter

7. Claims 12 and 13 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action. Claims 17, 20, 21, and 25 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. Claims 23 and 28 are indefinite and not understood, so no determination of patentability can be made.

Application/Control Number: 09/772,907

Art Unit: 2851

Conclusion

Page 5

8. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure. The patents on Applicant's PTO 1449 are cited for the same reasons Applicant cited

them in his INFORMATION DISCLOSURE STATEMENT. The patent to Suzuki (U. S. Patent

No. 6,078,281) is cited to show blind blades 438 and 439. The patent to Nishi '807 is cited to

show in the Abstract the statement "and a second masking member to change the illumination

area during movement of a mask and a substrate relative to illumination light during scanning

exposure".

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Alan A. Mathews whose telephone number is (703) 308-1706.

The examiner can normally be reached on Monday through Friday from 8:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Russ Adams can be reached on (703) 308-2847. The fax phone numbers for the

organization where this application or proceeding is assigned are (703) 872-9318 for regular

communications and (703) 872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703) 308-0956.

Alan A. Mathews Primary Examiner

alana. Malhen

Primary Exam

Art Unit 2851